

1749

---

REPORT  
OF THE  
STATE COMMISSION

Authorized by Joint Resolution No. 7  
of the General Assembly of 1912

To Examine Into the Relation

OF THE

State of Maryland

TO THE

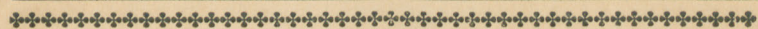
Maryland Agricultural College

---









REPORT  
OF THE  
STATE COMMISSION

Authorized by Joint Resolution No. 7  
of the General Assembly of 1912

To Examine Into the Relation

OF THE

State of Maryland

TO THE

Maryland Agricultural College





REPORT  
OF THE  
STATE COMMISSION

ON THE  
LANDS BELONGING TO THE STATE  
OF KANSAS

OF KANSAS

AND OF THE  
LANDS BELONGING TO THE STATE



REPORT  
OF THE  
STATE COMMISSION

---

*To the General Assembly of Maryland of 1914:*

Gentlemen:—The undersigned were constituted by the terms of Joint Resolution No. 7 of the General Assembly of 1912 a State Commission to inquire into and report to you all matters and facts concerning the relation of the State of Maryland to the Maryland Agricultural College, these matters and facts being more particularly described in the creating resolution as:

First, the condition, value and effectiveness of the plant and buildings of the College.

Second, the title, nature and ownership of private corporate stock.

Third, the title, nature and ownership of private corporate lands and State lands situated at College Park.

Fourth, the teaching staff and the work done for the State, its character, value and effectiveness.

Fifth, all other matters connected with and pertaining to the interests of the State of Maryland and its present and future appropriations on this account.

No appropriation was given us, but notwithstanding this, we have incurred certain necessary expenses in the belief that the omission was accidental and due to the confusion always incident to the closing hours of the Legislature and that you would remedy this omission.



We realized at the outset of our investigation that we were directed to make it because of the impossibility of the members of the General Assembly, or the proper committees thereof, getting any positive and definite information during their session and because of the widespread feeling in the State that no further appropriations should be made to the Maryland Agricultural College until the title to its property was vested absolutely in the State, and until the control of the institution was also placed in some active board controlled by the State. Holding this view of our responsibility, it became at once apparent to us that the only way the second and third questions asked us could be intelligently answered would be by securing competent legal advice. We, therefore, directed Messrs. William T. Warburton and Ogle Marbury to secure this information for us. They have done so in a comprehensive report, which we file herewith and make out answer to these questions.

Question No. 1. As to the condition, value and effectiveness of the plant and buildings of the College, we endeavored to answer through a visit in which we were extended every courtesy by the College authorities. In this visit we looked over the grounds, found a new dormitory in course of construction, and the other old buildings in fair shape. We could not, nor could any commission of this character, report fully on the question without a technical examination by experts, something we did not think we were expected to have made. We submit, in answer to this question, a statement concerning the plant and work given us by President Patterson, together with two exhibits, one showing the College buildings and the other a list of the staff, duties and salary. This statement also serves to answer the fourth query as to the teaching staff and the character, value and effectiveness of the work done for the College by the State. In this latter connection we also make a part of this report the annual report of the Director of the Experiment Station, made to the Trustees of the College, dated June 13th, 1913.



We believe that the Maryland Agricultural College should be made distinctively a State institution, run by a Board of Trustees composed of practical men interested in agriculture and the dissemination of agricultural knowledge. These trustees should be hereafter selected in some way so as to insure a larger number of them being not merely ex-officio members who devote their time to other State business and have little left for the College. We present to you as a part hereof a bill providing a new charter for the College, which may serve as a general indication of our views on this and other matters. We recommend that the present representatives of the private stockholders be allowed life representation on this Board of Trustees, because they represent those who over fifty years ago unselfishly devoted their money without hope of financial reward to the agricultural needs of the State.

In establishing such a State institution as we outline, it will, of course, be necessary that the title to the land and buildings of the College be vested absolutely in the State. Inasmuch as Messrs. Warburton and Marbury have shown in their report the practical impossibility of getting a legal conveyance from the stockholders of their interest, the only practical method of accomplishing this is to have the mortgage to the State mentioned in their report foreclosed and the property bought in by the State. We recommend that this be done by means of the assignment of this mortgage for foreclosure and the authorization of the purchase of the property as contained in the Act prepared by our legal advisers.

When the title to the College property is vested in the State and a new charter is given it, making it essentially a State institution, we believe it will be for the interest of the State at large to endow it in such a manner and in such sums as will enable it to become an agricultural school devoted primarily to agricultural work adequate for the needs of the State and of size and importance commensurate with the dignity of other State institutions.



We are having a bill presented to your Honorable Body allowing us our actual expenses and reasonable fees to our legal advisers which we submit with the hope that it may meet favorable consideration at your hands.

Respectfully submitted,

MURRAY VANDIVER,

Chairman.

JAMES McC. TRIPPE,

WILLIAM W. BECK,

WILLIAM T. WARBURTON,

CHARLES A. ANDREW,

OGLE MARBURY,

Members of the Commission.

#### REPORT OF WILLIAM T. WARBURTON AND OGLE MARBURY.

Gentlemen of the Commission:—We were directed at your meeting held December 4, 1913, to examine into all public and private records bearing on private corporate ownership and State ownership of land and stock of the Maryland Agricultural College, to report to you, and to file with you, when making our report, copies of all papers necessary for the purposes for which the Commission was named.

It has been necessary for us in carrying out the duties thus imposed to make a much wider investigation and search than was thought necessary at the time of our selection.

The various matters affecting the College are dovetailed, one into the other, in such a way as to make it impossible to investigate any one phase of the situation without investigating all of the others. We have made our search exhaustive and complete and have traced the history and the affairs of the College from its infancy to the present time through all avenues open to an investigator. The result of our labors we present



to you in concrete form, sub-divided as we deem best for your purposes.

OWNERSHIP OF LAND AT COLLEGE PARK, PRINCE GEORGE'S COUNTY, MARYLAND, UPON WHICH COLLEGE IS LOCATED.

An examination of the Land Records of Prince George's County discloses the following facts in relation to the title to the land upon which the Maryland Agricultural College is located.

By deed made March 22d, 1858, by George H. Calvert and wife and Charles B. Calvert and wife, acting as trustees and also as devisees under a deed and the will respectively of their father, George Calvert, there is granted to the Maryland Agricultural College, a corporation, incorporated by Act of the General Assembly of Maryland, December Session, 1856, Chapter 97, in consideration of the sum of twenty thousand (20,000) dollars four hundred and twenty-eight (428) acres of land therein described. This deed is recorded in the Land Records of Prince George's County in Liber C. S. M. No. 2 at folio 294, &c.

The four hundred and twenty-eight acres were by conveyance, dated July 1st, 1860, and recorded in the Land Records aforesaid in Liber C. S. M. No. 3, folio 544, &c., mortgaged by the Maryland Agricultural College to Johns Hopkins, George William Brown and George W. Rigges, to secure the payment of twenty-four (24) coupon bonds for the sum of five hundred (500) dollars each, and thirty (30) similar bonds for the sum of one hundred (100) dollars each, all of even date with the mortgage and payable to the mortgagees or bearer on July 1, 1865, with interest at 6% payable semi-annually at the Bank of Baltimore. Charles Benedict Calvert joins in the mortgage for the purpose of waiving and postponing a vendor's equitable lien which he is said therein to have for a balance of purchase money. This mortgage has never been released of record.

Certain tracts of these four hundred and twenty-eight acres were sold off, one to John Berry, March 14,



1865; one to Dr. Montgomery Johns, May 6, 1865, and forty-six (46) acres were agreed to be sold to Christian Engle. These conveyances left two hundred and eighty-three and one-eighth ( $283\frac{1}{8}$ ) acres which were on March 28th, 1866, by deed recorded in Liber F. S. No. 4, folio 556, etc., of the Land Records aforesaid, conveyed as to one equal moiety thereof by the Maryland Agricultural College to the State of Maryland in accordance with the Act of Assembly, 1866, Chapter 53, appropriating certain sums of money on condition of such a conveyance. This conveyance also makes the State equal joint owner in all personal, real and mixed property of the Maryland Agricultural College.

By mortgage dated September 8, 1902, the Maryland Agricultural College in accordance with the provisions of the Acts of Assembly, 1902, Chapter 625, conveyed to the State of Maryland all the property of the Maryland Agricultural College situated in Prince George's county, described as to the real estate as in fee and said to be the four hundred and twenty-eight acres conveyed to the College by Calvert as above set out, less thirty-six acres conveyed to John Berry, in Liber F. S. No. 2, folio 569, of the Land Records aforesaid, and less sixty-two and five-eighths ( $62\frac{5}{8}$ ) acres conveyed to Dr. Montgomery Johns, Liber F. S. No. 2, folio 633, of the Land Records aforesaid, and less forty-three (43) acres conveyed to Christian Engle, and less four and ten one-hundredths ( $4\frac{10}{100}$ ) acres conveyed to the Columbia and Maryland Railway by virtue of the Act of Assembly of 1896, Chapter 395, making a total quantity of real estate mortgaged of two hundred and eighty-two (282) acres, also including the personal property, consisting of furniture appliances, etc., in the buildings and on the premises near College Park. The interest of the College therein stated to be a one-half interest, the other half being in the State in accordance with the provisions of the deed above mentioned.

This mortgage is to secure the sum of fifteen thousand (15,000) dollars to run for a period of ten (10) years, with interest at 3% if demanded, and there is a



covenant that if the mortgagor shall fail to pay the principal sum of \$15,000 within ten years from the date thereof, or should fail to pay the interest, if demanded, the mortgagee, its successors or assigns, or Isador Rayner, its or their attorney or agent, is and are authorized and empowered to sell the property mortgaged for cash or on such terms as may be prescribed by the party making the sale, and to convey the same to the purchaser upon giving twenty (20) days' notice of the time and place of sale in some newspaper published in Prince George's county. This mortgage is recorded in Liber No. 11, folio 143, etc., of the Land Records aforesaid, stands unreleased on record, and we are informed that none of the interest has been demanded and none paid, and that the principal sum, due September 8th, 1912, has never been paid to the State.

Under the provisions of the Act of 1902, Chapter 625, the title to these two hundred and eighty-two acres, which is the land upon which the College is now located, had to be examined and certified before the mortgage was executed and the money appropriated by that Act was paid over. The question at once arose in our minds as to the prior mortgage to Johns Hopkins, &c., standing unreleased on the records. We found a certificate from the Title Guarantee & Trust Company of Baltimore in the Comptroller's office at Annapolis, certifying that the title was good. We were informed by the College authorities that the bonds secured by the prior mortgage to Johns Hopkins, &c., had been paid off, retired and destroyed, but their records were burned, and they could give us nothing but their best recollections on the subject. We took up the matter with the Title Guarantee & Trust Company and found that they certified the title on the strength of similar statements from the College authorities, on the strength of the retirement of sixty-eight hundred (6800) dollars of the bonds as a part of the consideration of the conveyance to Dr. Montgomery Johns, above mentioned, and on the strength of warrant No. 1389 in the office of the Treasurer of Maryland to the order of the Treasurer of the Maryland Agricultural College for fifteen thousand (15,000) dollars in payment of a



draft on record in the Comptroller's office from the President of the College, asking for this warrant to be applied to the payment of outstanding coupon bonds. The Act of 1866, Chapter 53, appropriates certain moneys to the College to be applied to their current indebtedness, and it is the opinion of all parties who know anything about the matter that the bonds have all been paid off, cancelled and destroyed. It is also probable, that as no interest has been paid on these bonds for more than twenty years, the **mortgage** would be barred by limitations.

We, therefore, have no difficulty in stating that the title to the 282 acres of land now occupied by the Maryland Agricultural College at College Park, Prince George's county, Maryland, is one-half in the State of Maryland and one-half in the Maryland Agricultural College, a corporation, subject to the operation and effect of the above set out mortgage to the State of Maryland for \$15,000.

THE MARYLAND AGRICULTURAL COLLEGE, A CORPORATION.

WHAT IS IT? WHO ARE ITS STOCKHOLDERS AND ITS  
BOARD OF DIRECTORS?

The Maryland Agricultural College was first established by the Act of the General Assembly of Maryland, Session of 1856, Chapter 97, which authorized subscriptions at \$25.00 a share to be taken, and provided an annual endowment from the State of six thousand (6,000) dollars as soon as 2,000 shares or fifty thousand (50,000) dollars were subscribed. It will thus be seen that the College was started as a private corporation for the promotion of agricultural knowledge, to be supported by State aid. This condition has continued from that time to the present day. In 1858 by Chapter 265 of the General Assembly shares of stock in the College corporation were reduced from \$25.00 to \$5.00. Owing to this fact and to the inaccuracy and incompleteness of the records of the College and to the fact that a fire occurring there during the past year burned such records as they had, it is impossible to ascertain just who



are the stockholders of the College corporation. We attach hereto a list of the stockholders with the numbers of shares held by each, furnished us by the College authorities, but stated and known not to be accurate as of the present time and not containing the amounts of money represented by these shares. We believe this to be the best information obtainable as to the present stockholders of the corporation.

In 1864, Chapter 90, the General Assembly accepted the Act of Congress, known as the "First Morrill Act," approved July 2, 1862, which donated public lands to the several States for agricultural colleges, and in 1865, by Chapter 178, the General Assembly appropriated the income from the investment of the proceeds of the sale of script under this Act of Congress to the Maryland Agricultural College. By this Act, in connection with the Act of Congress above set out, the College received permanent endowment, which is said to be one hundred and fifty thousand nine hundred and forty-three dollars and sixty cents (\$150,943.60), invested at 5% and yielding an annual income of five thousand seven hundred and ninety-seven (5,797) dollars.

It is unnecessary for us to go in detail into all the Acts of Assembly affecting the Maryland Agricultural College. We file herewith a list of them covering a number of typewritten pages, most of them carrying appropriations for maintenance and many of them appropriations for buildings and for other purposes. This list shows in detail the enormous sums already appropriated by the State for the use of the Maryland Agricultural College.

We call your attention especially to the Act of 1866, Chapter 53, appropriating forty-five thousand (45,000) dollars to liquidate the indebtedness of the College and to purchase furniture, under the provisions of which the trustees conveyed to the State a one-half undivided interest in the property of the College as set out in the sub-section above; also to the Act of 1902, Chapter 625, appropriating money to the College for dormitory accommodations, assembly halls, enlargement of buildings, etc., provided a mortgage be given



to the State of the interest in the real and personal property of the College, this being the Act authorizing the mortgage to the State above set out; also to the Act of 1904, Chapter 537, which amends the previous Acts and finally fixed the Board of Trustees who manage the College at the present day. This consists of eighteen (18) members, five elected by the private stockholders at their annual meeting set by the Act of 1868, Chapter 320, for the second Wednesday in April in Baltimore city, at which one-fourth in value of said stockholders shall be a quorum; six representing the State, consisting of the following officers, acting ex-officio:

The Governor, the Comptroller, the Treasurer, the President of the Senate, the Speaker of the House of Delegates and the Attorney-General, the United States Secretary of Agriculture, ex-officio; and six practical farmers, one from each Congressional District in the State, to be named by the Governor with the consent of the Senate, each appointment to last for six (6) years.

It will thus be seen that while the State has twelve trustees, the United States one and the private stockholders five, as a matter of fact the ex-officio members seldom attend, and the private stockholders are in practical charge of the institution, and conduct its affairs, including the spending of the money received from the State and from the National Government.

INCOME RECEIVED BY THE COLLEGE FROM THE FEDERAL  
GOVERNMENT UNDER ACT OF CONGRESS.

We have already stated that under the Act of 1862, known as the Land Grant Act or the First Morrill Act, the College receives an annual income of \$5,797 from its permanent endowment.

In addition to this amount it receives an annual appropriation under the Act of 1890, known as the Second Morrill Act, approved August 30, 1890, (26 Stat. L. 417) of \$25,000 to be applied only to instruction in agriculture, the mechanic arts, the English language and various branches of mathematical, physical,



natural and economic science with special reference to their application in the industries of life and to the facilities for such instruction. There are further provisions in the Act in relation to this appropriation which make it necessary for it to be studied in its entirety in order to fully understand its provisions.

Under the Act of Congress approved March 4, 1907, (34 Stat. L. 1256-1281) known as the Nelson Amendment, the College receives an annual appropriation of \$25,000. Under the provisions of the Act approved March 2, 1887, (24 Stat. L. 440) known as the Hatch Act, the College receives \$15,000, and under the provisions of the Act approved March 16, 1906, (34 Stat. L. 63) known as the Adams Act, the College receives \$15,000. The total of these annual receipts is \$87,797, but a certain percentage thereof, about \$11,000, is devoted to the Princess Anne School, an industrial and mechanical branch of Morgan College, designated by the Trustees of the Maryland Agricultural College as its Eastern Branch. We recommend to your consideration, in connection with these Acts, Circular III of the United States Department of Agriculture, issued by the director of experiment stations of that department and revised to October 1, 1912. This circular contains all Acts, regulations and rulings affecting agricultural colleges and experiment stations.

In case the Commission should recommend a new charter for the College or any legislation affecting the present charter, it is apparent that such legislation will have to be carefully prepared in order that it may not conflict with any of these Acts of Congress in such a way as to lose the State's benefit of the appropriations therefrom.

We were instructed at your meeting held December 18, 1913, to prepare a proper Act assigning the interest of the State in the mortgage on the College property for the purpose of foreclosure. The text of this Act we attach hereto as a part of this report.

Respectfully submitted,

WILLIAM T. WARBURTON,  
OGLE MARBURY.



NAMES OF STOCKHOLDERS, WITH NUMBER OF SHARES  
HELD BY EACH.

(Filed with Report of Messrs. Warburton and Marbury.)

A		Bowie, Fielder	10
Appold, George, & Son	10	Burch, Wm. N.	10
Archer, Henry W.	20	Beall, Wm. B.	5
Anderson, John W.	5	Bruce, Thos.	5
B		Bosley, G. M.	20
		Bosley, Wm., of Jno.	10
Bowie, Robert N. P.	100	Bayne, John H.	5
Brune, John C.	100	Bowie, F. M.	5
Barreda, F., & Bros.	250	Boothe, John	10
Barnum, Zenus	50	Burgess, F. B. F.	5
Brown, G.	50	Brown, S. T. C.	10
Bowie, James J.	10	Burwell, Elliott	10
Brooke, Robert W.	5	Bird, Benj. L.	5
Bentley, Wm.	10	Black, Wm.	5
Bosley, John, of Wm.	5	Brogden, D. M. C.	10
Brown, Robert P.	20	Bowie, Thos. F.	10
Bosley, J. M.	10	Berry, Samuel H.	5
Buckley, George H.	5	Barry, David	5
Beall, Horatio	5	Bowie, Richard W. W.	5
Burche, John C.	10	Briscoe, James T.	20
Bowie, Dr. Richard W.	10	Belt, Wm. T.	5
Bowie, T. M.	5	Barber, Jonathan Y.	5
Bowie, W. B.	5	Berry, Wm. F.	10
Bowie, John E.	5	Beall, Wash. S.	10
Beall, W. Z.	20	Bowie, Richard C.	20
Brown, J. M.	5	Bowie, Richard I.	20
Barklay, Thomas J.	5	Bailey, James T.	10
Beall, Ninnian	5	Blair, F. P.	20
Brent, James R.	5	Bannon, M.	5
Borroughs, Richard D.	5	Berry, Thomas E.	20



Beall, Wm. D.	5	Carr, John	10
Bowie, W. D.	20	Contee, C. S., & Bro.	10
Bolding, J. D.	20	Comegys, N. P. V.	10
Berry, W. J.	20	Corkoran, F. S.	5
Bowie, Robert, of W.	10	Clarke, W. D.	10
Bowie, W. D., Jr.	10	Carrick, Amos	5
Bowie, R. W.	10	Claude, A.	5
Beall, George T.	5	Carr, Samuel	5

C

D

Calvert, Charles B.	880	Deford, B., & Co., Stock	
Crutchett, James	200	in Agricultural Society.	
Corcoran, W. W.	200	Duckett, Richard	20
Carroll, Charles	60	Diggs, George A.	20
Carroll, Henry	20	Dennison, R. M.	20
Canby, Thomas Y.	10	Duvall, R. H.	10
Cooper, Samuel	20	Dorsett, W. N.	5
Costigan, S. T.	5	Duvall, G. W., of Dennis	5
Coad, Wm.	10	Donaldson, George S.	5
Carroll, H. S.	10	Duvall, Wm. B.	10
Combs, C.	10	Drakely, H. W.	20
Crawford, S. C.	5	Dennis, George R.	20
Clarke, Daniel	20	Duvall, George W., of G	5
Cross, Fielder	10	Diggs, Daniel C.	10
Carman, George H.	5	Duvall, H. Clay	5
Coates, John	10	Deal, Jonas	5
Clarke, Robert	25	Dement, Wm. F.	5
Contee, John	20	Day, Elijah M.	5
Carroll, Henry, Jr.	25	Diggs, Robert	5
Carroll, S. S.	25	Deale, J. F.	10
Chew, Richard B. B.	5	Darnall, R. B.	10
Carrick, Richard	10	Duvall, H. M.	5
Clark, Wm. B.	10	Dorsett, S. H.	10
Cox, Samuel	5	Dorsett, T. Jefferson	5
Crane, P. W.	10	Davidson, Thomas	5
Cheston, James	20	Darnal, Richard	5



Duke, N.	5	Fitzhugh, P.	10
Dorsey, S. Y.	5	Feast, Samuel	10
Dalrymple, J. J.	5	Freeland & Hall	20
Davis, A. B.	35	Fuller, Phillip	5
Dufief, J. L.	10	Forbes, George	20
Dickerson, N. C.	5		
Duvall, R. J.	5	G	
Dennis, Dr. G. R.	20	Gelston, Hugh	50
Dare, John	5	Gittings, Thos. E.	50
		Goldsborough, M. T.	100
E		Gordon, A. B.	10
↗ Earle, James T.	100	Gorsuch, J.	10
Eichelberger, Otho W.	10	Gosnell, L. W.	5
Emory, Thomas T.	10	Gill, George M.	25
Easter, Hamilton	20	Gaunt, C. A.	5
Eversfield, John T.	20	Gittings, L.	25
Evans, Thomas J.	10	Goldsborough, Jas. N.	20
Emory, J. R.	25	Gardner, Nimrod	5
Eareckson, Robert	5	Gibson, Woolman	5
Eldridge, G. M.	25	Gardiner, Thos. J.	5
Emory, Stuart R.	10	Gardiner, Joseph B.	5
Emory, Albert T.	20	Greene, F. B.	5
Eversfield, B. H.	5	Gardiner, J. F.	5
Evans, R. H.	20	Gardiner, John F.	5
Ege, M. M.	4	Gibbs, A. C.	5
Edelin, W. J.	10	Gott, Edwin E.	10
		Chisilin, Wm.	5
F		Gary, Thos. H.	10
Fell & Robinson	10	Gwynn, B. F.	10
Fleming, John	10	Gardiner, H. L., & Geo.	10
Feast, John	5	Gantt, Virgil	5
Finley, Washington	10	Graham, Thos. J.	10
Furgerson, O. A.	5	Gibbons, Thos. B.	5
Franklin, T. I.	10	Gant, R. H.	10
Franklin, Alex.	10	Gant, Thos. J.	10
Fenwick, Martin	20	Griffith, F. Lewis	20



Groome, J. C.	20	Harris, O. C.	5
Greene, G. Washington	5	Hardesty, Thos. G.	5
Green, N. H.	10	Hill, W. B.	10
Goldsborough, Wm. T.	20	I	
Gilmor, R.	5	Isaacs, Joseph	5
Gantt, Benj. E.	10	Isaacs, James W.	15
H		Iglehart, James, Jr.	10
> Hopkins, Johns	100	Iglehart, John W.	5
Hewlett, John Q.	100	Iglehart, Thomas S.	5
Hanson, Chas. G.	50	Iglehart, James A.	10
Hussey, Obed	50	Iglehart, John	10
Hill, Clement	10	J	
Holmes, Victor	10	Johns, Richard	10
Heath, H. W.	5	Johns, John	20
Hiss, George M.	10	Jessop, Wm.	20
Hall, Richard D.	5	Johnson, Wm. Fell	10
Hamill, Patrick	5	Jenkins, Hugh	10
Horn, Jacob	5	Johnson, James	5
Hoover, Daniel L.	5	Jones, Ethan A.	5
Howard, C. R.	10	Johnson, Bradley T.	10
Harris, Grant	10	Johnson, Wm. H.	5
Hughes, George W.	40	Jones, Luther D.	5
Howard, George	10	Jacobs, J. M.	20
Hopkins, John H.	5	K	
Hopkins, Wm.	5	Kennedy, Wm.	50
Hall, Thos. J.	20	Kettlewell, John	10
Hall, A.	5	Kelly, Caleb	10
Harwood, Sprigg	5	Kyle, Samuel A. S.	5
Harwood, James H.	5	Kirby, J. P.	5
Harwood, C. Chapman	5	Kiebard, B.	5
Hillery, George W.	5	Key, J. H.	5
Hall, E. G. W.	10	Kimmel, Anthony	20
Hodges, Benj.	10	Kyle, George H.	5
Higgins, J. C.	5	Kent, Thos. R.	10
Holland, Thos.	5		



Kent, Daniel	5	Mitchell, J. W.	5
Kane, George P.	10	Magruder, A. S.	10
King, W. Albert	5	McAvoy, Hugh L.	5
Kilgour, J. Mortimer	20	Miller, W. D.	5
Kilbourn, E. G.	5	Maitland, Benj.	10
L		McPherson, Wm. S.	10
Lurman, G. W.	50	McKenna, Patrick	10
Luckett, J. H.	40	McKim, Wm.	20
Lee, Jas. H.	5	Magraw, R. M.	20
Love, Thos.	20	Marbury, Fendall	5
Logue, James	20	Mathews, John D.	10
Loney, B. S.	10	Merryman, Levi	5
League, George B.	20	Marshall, Thomas	5
Lowndes, Benj. O.	5	Marshall, James M.	10
Loney, Wm. A.	5	Marshall, Thomas S.	5
Linton, J. D.	5	Mong, Joseph P.	5
Lyles, Wm.	20	Manro, George W.	5
Lemmon & Brogden	10	McCubbin, John D.	5
Long, Louis L.	10	McCracken, John	5
Landsdale, Thos.	10	Mathews, Wm. B.	20
M		McLean, Cornelius	20
> Mercer, Wm. N.	1500	Mines, John L.	10
McHenry, Ramsay	400	Magill, James P.	5
Merryman, John	100	Mercer, Thomas S.	10
Murdock, Wm. F.	25	Morsell, James S., Jr.	20
McHenry, J. Howard	200	Maedaniel, Wm.	10
McCormick, C. H.	50	Martin, Uicholas, Jr.	5
Mulliken, John Contee	10	Mason, M.	10
Mathews, Thos. H.	10	McHenry, Sophia	20
McLeon, Chas. M. D.	10	Mason, John Thomson	10
Mathews, Joshua	10	Mulliken, James	10
Mathews, Wm.	20	Mitchell, Walter	20
McCourt, Alfred	5	N	
Marshall, Geo. R.	5	Nesbit, Alexander	10
Morgan, D. F.	5	Newman, G. W.	5



Nutwell, George W.	10	Piper, James	5
Nelson, Joshua R.	10	Purnell, Wm. H.	10
Newburn, James	5	Perry, Thomas	20

O

Q

Ohern, M. P.	20	Quinn, John Randolph	20
Ogle, George C.	5	Quinan, John R.	5
Ogle, Richard L.	5		
Owens, James S.	20		
O'Hara, Benj.	10		
Owings, James, Jr.	10		
Owens, Thomas	5		
Owens, Thomas F.	5		
Owens, John B.	5		
Owings, Samuel	20		
Owings, Henry, of S.	20		

P

R

Page & Co., George	100		
Perine, D. M.	50		
Paca, Wm. B.	100		
Patterson, George	40		
Pue, H. N.	5		
Penn, Hanson	5		
Prince, Wm. S.	5		
Pue, Michael	20		
Pumphrey, James G.	5		
Pumphrey, Rector	5		
Price, Thomas A.	5		
Peacock, Henry	5		
Peake, Wm. H.	5		
Pindall, Rinaldo	5		
Pumphrey, Wm. P.	10		
Pindall, Robert G.	5		
Padgett, W. A.	5		
Pinkney, S.	5		

Roberts, Edward P.	50
Ridgely, C.	100
Rhodes, B. M.	50
Robbins, Louis S.	50
Reese & Bro.; W. Smith	20
Rider, Edward	10
Roman, J. Dixon	20
Richardson, S. Elliott	5
Roberts, Richard	5
Remare, A	10

S

Sinclair, Jr., R. & Co.	100
Sands, Wm. B.	50
Spaulding, E. L.	5
Scott, Henry T.	5
Swann, Thomas	100
Sprigg, Osborn	10
Schumacher, A.	20
Slingluff, Upton	10
Stansbury, C. S.	20
Snowden, R. Nichols	5
Sutton, Samuel	20
Sommerville, James	5
Skinner, J. H.	10
Skinner, Anna	5
Skinner, J. S.	10
Slothower, George	5



Sheppard, Thomas	10	Thomas, J. R. D., N. P.	10
Scott, Edwin	5	Tillard, E. E.	5
Sumwalt, J. B.	20	Tongue, B.	5
Scott & Fernandis	100	Tucker, William	10
Springer, David	20	Tilghman, James	10
Stimson, James H.	5	Templeman, R. W.	5
South, Daniel	5	Treadwell, O. W.	10
Stewart, Charles C.	10	Throckmorton, John A.	10
Sellman, John	5	Taylor, Wilkerson	5
Sheppard, Wm.	10	W	
Sheppard, Joseph	5		
Sellman, R.	5	Warring, John H.	60
Stewart, R. S.	20	Walsh, John Carroll	500
Spencer, R. T.	10	Wylie, Robert	100
Sellman, R. D.	10	Worthington, Samuel	20
Spry, Wm. T.	10	Worthington, John T.	20
Shipley, Nicholas	20	Worthington, Benj. T.	10
Sollers, A. R.	10	Webster, Isaac	10
Stewart, Hamilton	5	Williamson, L. T.	10
Skinner, Levin	5	Wilson, William C.	20
Stanforth, Levin	10	Whiting & Co., James	5
Scrivener, Wm. B.	10	Wright, Robert	5
Stone, T. D.	10	Worthington, N. B.	30
Simpson, Wm.	5	Warns, Clement	5
Southron, J. H.	50	Wharton, J. O.	20
T		Washington, John A.	20
Turner, J. J., & F.	50	Wilson, John B.	5
Tagart, Wm.	50	Wilson, Thomas J.	20
Taylor, Robert A.	30	Wingate, Joseph S.	5
Thomson, John C.	20	Weems, Francis W.	5
Thomas, Richard	5	Webster, Edwin H.	5
Townsend, Jeremiah	5	Wilson, John F.	5
Tuck, Wm. H.	10	Weems, John C., & F.	10
Toole, John E.	5	Williams, George H.	20
Trimble, Isaac R.	5	Welch, B. A., & Benj.	5
		Welch, George W.	5



Wooton, Richard	5	Wright, R. Alex.	10
Wilson, George W.	10	Woodward, R. D.	5
Wood, W. A.	30	Worthington, N. J.	5
Worthington, Geo. Y.	20	Withers, Edwin D.	10
Williams, Thomas P.	20	Weedon, W. S.	20
Whitman & Co., E.	30	Warring, J.	5
Williams, Benj. H.	5	Williams, Robert W.	5
Weems, Chas. H. N.	5	Wallis, H.	5
Welch, Thomas	5	Y	
Willis, S.	5	Yoe, Robert W.	5

LISTS OF ACTS OF ASSEMBLY AFFECTING THE  
MARYLAND AGRICULTURAL COLLEGE.

(Filed with report of Messrs. Warburton and  
Marbury.)

1856, Ch. 97.

Original Act establishing College, authorizing subscriptions at \$25 a share, etc. Annual endowment of \$6,000 of 2,000 shares subs.

1858, Ch. 265.

Amendatory Act reducing shares to \$5, etc., and providing for a trustee each from the Eastern and Western Shores for the State at large.

1858, Ch. 409.

General appropriation Act—to State Agricultural College \$6,000 to Jan. 1, 1860.

1860, Ch. 341.

General appropriation Act—to State Agricultural College \$6,000 to Jan. 1, 1861.

1861, Ch. 270.

General appropriation Act—to State Agricultural College \$6,000 to Jan. 1, 1863.

1861, Ch. 185.

General appropriation Act—to State Agricultural College \$6,000 to Jan. 1, 1864.



1864, Ch. 377.

General appropriation Act—to State Agricultural College \$6,000 to Jan. 1, 1865.

1864, Ch. 374.

General appropriation Act—to State Agricultural College \$6,000 to Jan. 1, 1866.

1864, Ch. 90.

Accepting Act Congress donating public lands to States for agricultural colleges.

1865, Ch. 178.

Appropriating income from investment of proceeds of sale of scrip donated by U. S. A. for benefit agriculture under Act Congress 2nd Session 1864, to M. A. C., stating object college, without excluding other scientific and classical studies and including military tactics, to teach such branches as are related to agriculture and mechanic arts and providing that State Board of Education shall be, ex officio, member of Board of Trustees.

1865, Ch. 183.

General appropriation Act—to Agricultural College \$6,000 to Jan. 1, 1867.

1865, Ch. 160.

Adding "Public instruction Article to Code—Ch. IX, Sec. 1. Provides that annual donation to Agricultural College shall continue until otherwise ordered by the General Assembly, subject to condition that they shall afford tuition in all branches taught and use of books free of charge to one student for every \$100 received from State. Ch. 14, Sec. 4, makes St. John's, Washington College, M. A. C., Fac. of Arts and Sciences, and Tome School the University of Md., to be controlled and governed as may be directed.

1866, Ch. 53 (extra session).

Amending Ch. 97, Art. 1856, and Ch. 265, Art. 1858, appropriating \$45,000 in three equal install-



ments 1st April, 1866, 1867 and 1868, to liquidate present indebtedness and purchase furniture, provided trustees shall, before April 1, 1866, make by good and valid title the State equal joint owner of property of every desc., real, personal and mixed, now owned by sd. college,—11 trustees, 4 members State Bd. Ed. and 7 elected by private stockholders, 6 of which 7 to be residents of Md. and 1 of D. of C. sum not exceeding 10% upon amt. received by State under Act of Congress, 1862, Ch. 130, authorized to be expended for experimental farms is set apart to be paid unto State Treasurer to reimburse State for amount appropriated by this Act—so much Act 1865, Ch. 178, as is inconsistent herewith repealed.

1867, Ch. 302.

Gen. appropriation Act—to Agricultural College, \$6,000 to Jan. 1, 1868.

1867, Ch. 366.

Gen. appropriation Act—to Agricultural College, \$6,000 to Jan. 1, 1869.

1868, Ch. 320.

Repealing and re-enacting Secs. 4 and 13 of Act 1856, Ch. 97. President Senate ex-officio member Bd. of Trustees. General meeting stockholders annually 2nd Wednesday in April in Balto. city— $\frac{1}{4}$  in value sd. stockholders shall be quorum.

1868, Ch. 399.

Gen. appropriation Act—to Agricultural College, \$6,000 to Jan. 1, 1870.

1870, Ch. 183.

Adjutant-General to present 100 muskets with accoutrements complete for M. A. C.—Trustees to execute bond for safe-keeping.

1870, Ch. 454.

Gen. appropriation Act—to Agricultural College, \$6,000 to Jan. 1, 1871.



1870, Ch. 409.

Gen. appropriation Act—to Agricultural College, \$6,000 to Jan. 1, 1872.

1872, Ch. 415.

Providing for more strict compliance by State with provisions of Act of Congress approved July 2, 1862, and investing for use M. A. C. \$11,250 in State 6% bonds and to pay over to trustees semi-annually April and October the interest thereon, etc.

1872, Ch. 253.

Gen. appropriation Act—further appropriates for support of government for year ending Dec. 31, 1873—to Agricultural College, \$6,000.

1872, Ch. 252.

Do. year ending Dec. 31, 1872—\$6,000 to Agr. Col. 1874 and 1875.

Each \$3,000 in Gen. App. bills of 1874.

1876, Ch. 217 (for 1876).

Gen. App. Act for schools—not mentioned by name, but may be included in \$38,000 app. for donations to colleges, etc., as per Acts Assembly heretofore passed.

1876, Ch. 331.

Do. for 1877.

1878, Ch. 260.

For 9 months ending Sept. 30, 1878—in addition to \$38,000 as before—to M. A. C., \$4,500. Query: Is this a double appropriation?

1878, Ch. 626.

For year ending Sept., 1879—\$40,000 donations to college as above to M. A. C., \$6,000.

1878, Ch. 331.

Do. for 1880.



1880, Ch. 231.

Repealing Sec. 4, Act 1866, Ch. 53, and providing for 12 trustees; 5 elected by majority of private stockholders, 4 of whom residents of Md. and 1 of D. of C.; and 6 representing State—Governor, Comptroller, Treasurer, President of Senate, Speaker of House and Attorney-General; and U. S. Com. of Ag. shall be ex officio 1 of Bd.

1880, Ch. 431.

Gen. App. Act for 1881 \$40,000 for college, etc., for M. A. C. \$5,000. (Why?)

1880, Ch. 432.

Gen. App. Act for 1882 for colleges, etc., \$40,000, to the M. A. C. "five dollars and no more." (Why?)

1882, Ch. 432.

Gen. App. Act for 1883 for colleges, etc., \$40,000, to the M. A. C. \$5 and no more.

1882, Ch. 459.

Gen. App. Act for 1884 for colleges, etc., \$40,000, to M. A. C. \$5 and no more.

1884, Ch. 402.

Gen. App. Act for 1885 for colleges, etc., \$42,500, to M. A. C. \$5 and no more.

1884, Ch. 424.

Gen. App. Act for 1886 for colleges, etc., \$42,500, to M. A. C. \$5 and no more.

1886, Ch. 307.

Commission established with appropriation \$1,000 to report to next Gen. Assembly as to propriety of establishment of Agricultural Experiment station.

1886, Ch. 425.

Gen. App. Act for 1887 for colleges, etc., \$42,500, to M. A. C. \$5 and no more.



1886, Ch. 402.

Gen. App. Act for 1888 for colleges, etc., \$42,500, to M. A. C. \$5 and no more.

1888, Ch. 55.

Assenting to Act Congress 2nd Session 49th Con., Ch. 314 to establish agricultural experiment station and designating M. A. C. as college entitled to receive appropriation for Maryland.

1888, Ch. 326.

Repealing Sec. 4 Act 1866 Ch. 53 as same has been repealed and re-enacted by 1880 Ch. 231, and re-enacting sd. section—18 trustees 5 elected by private stockholders, 6 representing State, U. S. Com. of Agr. ex officio, and one person from each Con. Dist. in State apptd. by Governor with consent Senate for six years, 2 to be applied each year.

1888, Ch. 481.

Gen. App. Act for 1889—for colleges, etc., \$44,500, to M. A. C. \$6,000, provided that no more than \$5 shall be paid until board is changed to include one practical farmer from each Con. Dist. of State.

1888, Ch. 526.

Gen. App. Act for 1890—same as 1889.

1890, Ch. 469.

Act for support sundry schools, etc., to M. A. C. \$6,000 for year 1891 and \$6,000 for year 1892. (Query: Is this amount now duplicated or is this the amount stipulated under Act 1856, Ch. 97?)

1892, Ch. 125.

Giving legislative assent to Act Congress approved Aug. 30, 1890, and authorizing and directing M. A. C. to make suitable provisions for complying with requirements thereof.

1892, Ch. 606.

App. Act—\$6,000 for fiscal year 1893, \$6,000 for 1894.



1894, Ch. 655.

App. Act—\$9,000 for year 1895—\$9,000 for 1896.

1896, Ch. 393.

Authorizing trustees to convey to Col. & Md. Ry. strip of 4 10-100 and along Paint Branch.

1896, Ch. 456.

App. Act \$9,000 for 1897 and \$9,000 for 1898.

1898, Ch. 291.

Special Act appropriating \$14,000 to M. A. C., \$10,000 of which for recitation room and laboratories for Dept. of Agr., \$4,000 of which for sanitary plumbing in present dormitories.

1898, Ch. 323.

Gen. App. Act \$9,000 for 1899 and \$9,000 for 1900.

1900, Ch. 620.

Gen. App. Act \$9,000 for 1901 and \$9,000 for 1902.

1902, Ch. 512.

Gen. App. Act \$9,000 for 1903 and \$9,000 for 1904, \$3,996 for 1903 and \$1,776 for 1904, sd. additional amts. being 2% on endowment of \$88,800 for 3 years and 3 months, or the difference between 2% and 5%, at which latter rate endowment required to be invested by Acts of Congress. "Sd. appropriations being made upon the recommendation that the said college become the property of the State of Maryland and be made exclusively a technical school."

Act 1902, Ch. 382.

Analyzing of fertilizers by M. A. C.

Act 1902, Ch. 625.

Appropriations made by M. A. C. for its use and for experiment station—Dormitory accommodations, kitchen and dining-room accommodations and general assembly hall—\$25,000 heating of dormitory \$3,000—enlargement of mechanical bldg.—\$5,000 maintenance experiment station *annual appropriation of*



\$5,000. One-half above appropriations for buildings (totalling \$33,000) constitute 1st lien to State on property of M. A. C. and shall be secured by mtge. to be given by sd. college in its corporate capacity to State—to run for 10 years, with int. at 3%, payable annually, if demanded—to be ratified by trustees and stockholders and trustees shall cause examination of title to be made and title co. or atty. designated by Atty. Gen. and upon report to and approval of Atty. Gen. that title is good and properly vested in sd. college in its corporate capacity in fee and free from incumbrances, money paid by fiscal officers of State and not before. Resolution private stockholders shall assent to lien and this resolution filed with Secy. of State.

1904, Ch. 537.

Amending Sec. 4 of charter making 18 trustees, 5 elected by private stockholders, 6 to represent State, Gov., Compt., Treas., Prest. Senate, Speaker House and Atty. Gen., 1 the U. S. Sec. of Agr. ex officio, and 1 from each Con. Dist. practical farmer apptd. by Gov. with consent of Senate for 6 years.

1904, Ch. 557.

App. \$6,000 *per annum* for farmers' institutes to be paid to M. A. C.

1904, Ch. 228.

State Board loan \$1,625,000 called "Public Buildings Loan," of which \$57,000 is for the purpose of construction and completion of buildings of M. A. C.

1904, Ch. 638.

Gen. App. Act \$9,000 for 1905 and \$9,000 for 1906—Further sum of \$3,503.52 deficiency in arrears of interest on endowment for back years and \$2,318.88 for 1905 and \$2,318.88 for 1906.

1906, Ch. 217.

Assent to Act Congress (Adams Bill), 59th Congress 1st sess. 4 R. 345 providing increased appropriations for experiment stations.



1906, Ch. 487.

M. A. C. authorized to convey an irregular strip of land east of Paint Branch (how big? to whom?) upon such terms as agreed upon by trustees and when deed recorded, it shall be deemed to convey all rights with and without State of Md. (Why was this Act passed?)

1906, Ch. 311.

App. of \$5,000 for years 1906 and 1907 to M. A. C. for benefit Md. tobacco industry and development of markets therefor.

1906, Ch. 810.

Gen. App. Act for maintenance \$15,000, for indebtedness for heating new building \$8,000, for buildings erected without appropriation \$8,000, for repairing boilers \$6,000, for deficiency on int. on endowment \$2,318.86, for liens and outstanding debt \$6,742.10, aggregating \$46,060.96 for 1907; and \$15,000 for maintenance, \$2,000 for steam laundry, \$2,318.86 for deficiency in int., aggregating \$19,318.86 for year 1908.

1908, Ch. 161.

Bd. trustees M. A. C. created Md. State Bd. of Agriculture—no duties set out.

1908, Ch. 255.

Gen. App. Act—\$15,000 for maintenance, \$30,000 for buildings, \$2,318.86 for deficiency in int. for 1909; \$15,000 for maintenance, \$5,000 for repairs and \$2,318.86 for deficiency in int. for 1910.

1910, Ch. 409.

Gen. App. Act—\$16,000 for maintenance for 1911 and \$16,000 for 1912—for experiment station \$5,000 for 1911 and \$5,000 for 1912 for deficiency interest \$2,318.86 for 1911 and \$2,318.86 for 1912 for equipment of new Engineering Station \$10,000 in 1911 for deficiency in heating plant \$1,600 for 1911.



1912, Ch. 212.

M. A. C. to analyze fertilizers.

1912, Ch. 556.

Gen. App. Act—\$10,000 for maintenance (disapproved by Governor).

1912, Ch. 93.

Gen. App. Act—\$16,000 for maintenance for 1913 and \$16,000 for maintenance for 1914, \$5,000 for Experiment Station for 1913 and \$5,000 for Experiment Station for 1914, \$3,000 for demonstration work for 1913 and \$3,000 for demonstration work for 1914, \$2,318.86 def. in int. for 1913, and \$2,318.86 def. in int. for 1914 and \$5,000 for equipment for engineering course for 1913.

TEXT OF PROPOSED ACT OF ASSEMBLY FILED AND REPORT  
OF MESSRS. WARBURTON AND MARBURY.

A bill, entitled "An Act providing for the foreclosure of the mortgage now held by the State of Maryland on certain lands and property of the Maryland Agricultural College, authorizing the Treasurer of the State of Maryland to purchase said property at the foreclosure sale under certain conditions and making an appropriation therefor."

Whereas, The State of Maryland now owns an undivided moiety in certain lands, chattels, etc., now occupied by the Maryland Agricultural College, at College Park, Maryland, the other undivided moiety being the property of the Maryland Agricultural College, a corporation, subject to the lien of the State of Maryland under a mortgage now overdue and unpaid; and

Whereas, The said College is maintained and carried on wholly and entirely by State appropriations and by appropriations coming to the College through the State from the Federal Government, and it is desired that the title to all of its property be completely vested in the State so that it become entirely a State in-



stitution, which can only be accomplished by foreclosure of the above mentioned mortgage.

Section 1. Be it enacted by the General Assembly of Maryland, That the mortgage given by the Maryland Agricultural College to the State of Maryland on September 8, 1902, which mortgage is duly recorded in the Land Records of Prince George's County, Maryland, in Liber No. 11, at folio 143, etc., and is now overdue and unpaid, be and the same is hereby assigned for the purpose of foreclosure to the Treasurer of Maryland, and he is hereby authorized and directed to proceed to foreclose said mortgage in accordance with the terms of said mortgage and the laws of the State of Maryland in such cases made and provided.

Section 2. And be it further enacted, That the Treasurer of Maryland be and he is hereby authorized and directed to bid for said property at the sale made in pursuance of the foreclosure proceedings thereof, and to buy the same in for the State of Maryland at and for a sum sufficient to pay said mortgage debt and all costs, commissions and fees incident to said sale.

Section 3. And be it further enacted, That the sum of twenty thousand dollars (\$20,000) be and the same is hereby appropriated out of the funds in the State Treasury not otherwise appropriated, for the purposes heretofore set out in this Act; and upon a statement of the necessary amount therefor being filed with him by the Treasurer, the Comptroller of the Treasury is hereby authorized and directed to issue his warrant upon the Treasurer for the said sum of twenty thousand dollars (\$20,000) or such portion therefor as may be set out in such statement in favor of the Treasurer of Maryland.

Section 4. And be it enacted, That this Act shall take effect from the date of its passage.



STATEMENT OF PRESIDENT PATTERSON CONCERNING  
PLANT AND WORK OF THE MARYLAND AGRICULTURAL  
COLLEGE AND EXPERIMENT STATION.

1. The condition, value and effectiveness of the College plant and buildings may be summarized as follows:

APPROXIMATE ESTIMATE BASED ON INSURANCE VALUE.

College Buildings .....	\$ 167,685
Contents .....	89,820
New Dormitory (in course of erection) .....	100,000
Experiment Station Bldgs.....	62,225
Contents .....	27,775
286 Acres @ \$150 per acre.....	42,900
	<hr/>
	\$490,405

(An itemized estimate is appended, Exhibit "A.")

The condition of the buildings is good. All the larger ones are of brick construction and needed repairs have been made from time to time since their erection. A new dormitory to partly supplant those destroyed by fire is now in course of construction. Upon completion it will accommodate 110 students. At the present time there are 260 regular students attending the institution and, in addition, about 250 men and women attending the short winter courses.

Since the fire, dormitories for fifty-five students have been provided in the former President's house and in the farm house. These students are fed at a dining hall temporarily built for this purpose.

The rest of the regular students are located at private boarding houses in College Park and vicinity.

The class-rooms and laboratories, with the exception of the Department of Language, Mathematics and Military Science, were not injured by the fire, but the greatly increased enrollment of regular students has caused all departments to be greatly crowded in carrying on their work. While some of the laboratories



are fairly well equipped, most of the departments are in need of increased accommodations and equipment, as a larger number of students are attending now than was enrolled at the time these facilities and buildings were provided.

The administration offices, after the fire, were removed to the Hospital Building, where they are at present housed. A temporary building was constructed after the fire for assembling the students, holding chapel, etc. The gymnasium is being used as an armory.

The heating plant is in good condition and is sufficient for the buildings it supplies. An addition will have to be made to the plant to accommodate the new building under construction.

The short-course students have been temporarily taken care of at the Experiment Station since the fire. The quarters given for this purpose are needed for other departments, and we must make provision for this work at the College as early as possible.

The Experiment Station buildings are in good condition, but are wholly inadequate for the work of this institution. Each department is crowded and needs both room and equipment.

The College and Station farm after years of improvement is now in a good state of fertility. Practically all the acreage is under cultivation and many experiments that have been carried on for several years are in progress.

There are, of course, many ways in which the general plant can be improved, but it may be said, for the money invested, it is believed that as good work as can be accomplished under the circumstances is being prosecuted.

## 2. The present teaching staff of the College:

The work done for the State, its character, value and effectiveness.

At the outset it is impossible in a brief of this character to set forth a comprehensive discussion of



the value and effectiveness of the vast amount of work done by this institution through instruction to students, investigation, and extension work in the State.

In order to give you the information regarding the faculty of the College and Staff of the Station, I am submitting appended a summarized table, Exhibit "B," believing that this presents the information in the most intelligible form; except it is impossible to discuss adequately what each man does in his department.

#### COLLEGIATE DEPARTMENTS.

The College offers eight four-year courses, including Agriculture, Horticulture, Biology, Chemistry, Mechanical Engineering, Civil Engineering, Electrical Engineering, General Course, leading to the degree of Bachelor of Science; two two-year courses, Agriculture and Horticulture, and eight short courses, viz.: Soils, Fertilizers, Farm Crops, Domestic Science, Poultry Husbandry, Horticulture, Animal Husbandry, Farm Machinery and Farm Engines, and Farm Carpentry and Blacksmithing, extending from a week to two weeks during January, February and March.

No similar institution in other States require from their faculty the amount of work that is now necessitated at this institution. The character of the work requires that the teachers and instructors devote as much time as possible to keep abreast of the science in which they are engaged.

The effectiveness of the work in instruction done at this institution can be judged by the success of our graduates and their rating at institutions for advanced work.

I should be pleased to submit a list of achievements by many of our graduates if desired.

While the collegiate work as conducted is satisfactory, except for crowded quarters and need of additional apparatus, it is desired to enlarge the scope of several departments, such as Agriculture, Horticul-



ture, Rural Economics, Agricultural Engineering and courses in applied sciences, such as canning, domestic science and home keeping, to offer greater opportunities to the young men and women of the State. Especially do we desire to extend the demonstration work in the State.

#### STATE CONTROL WORK.

It seems desirable that I call your attention to the State control work that has been placed under the direction of this institution. This work offers a medium through which the several departments may reach the public, but it also involves extra expenses on the institution. The funds appropriated for the conduct of this work should not be charged against the College, as a fund for education. The control or police work is placed in the hands of the College Trustees for execution, and funds should be regarded as distinct as the appropriations given to the State Board of Health for food inspection.

The fertilizer and food control law was enacted in 1886, and the College was charged with carrying out the provisions of the law through the chemist who was designated as State Chemist.

At present there are nine county inspectors employed in this work at a cost of \$2.00 per day and expenses, when actually engaged. The expenses of inspectors, traveling, printing, postage, laboratory supplies, etc., amount to about \$5,000. These expenses with the salaries of the chemist and assistants amount to almost \$15,000, which include their teaching work as set forth in table. The receipts to the department from fees for analyzing fertilizers, feeds, and lime, amount to about \$14,250.

(Approximate)	Fertilizers.	Feeds.	Lime.
Samples collected, year	4400	600	200
Samples analyzed	2000	200	120

Each sample requires eight to ten separate determinations or analyses. The results are published in a quarterly bulletin—20,000 copies being printed each



quarter. These are sent free to all who apply. Samples not analyzed are duplicates. In addition, many farmers send in samples of fertilizers for analysis each year. Any farmer has the right to have a sample drawn from fertilizer purchased by him and analyzed at the College.

An inspector is kept in Baltimore for practically the entire year, who takes samples of fertilizers, feeds and lime as they are being shipped by boat or railroad to the various parts of the State. The counties are canvassed twice a year, and parts of them oftener, for the purpose of securing samples where exposed for sale, from wharves, depots, farms, etc.

It is impossible to estimate the benefit this work has been to the farmers of the State. Aside from the real work accomplished the moral effect on commercial firms is good.

#### FARMERS' INSTITUTE.

The State inaugurated the Farmers' Institute Department by laws passed in 1896, appropriating \$6,000 for the work and placing same under control of the College. Farmers' Institutes are held in all parts of the State when desired. Special educational trains have been conducted in co-operation with the railroads. The work of this department is to carry information to the farmers. During the last year Farmers' Institutes were held in the State, and all for the most part were largely attended. This work should be extended so that more time can be spent at a given point. Many of the College faculty and Station staff assist in lecturing at the institutes.

#### STATE HORTICULTURAL DEPARTMENT.

In 1898 the State passed the State Horticultural law, making provision for the control of insect pests and diseases and inspection of nurseries and orchards. At that time the San Jose Scale threatened the orchard interests of the State. An appropriation of \$8,000 was



made for this work and placed under the control of the institution. The Entomologist, State Pathologist, and State Horticulturist, created under that Act, were to be professors of these subjects at the College. Much work has been done by this department in aiding the orchard and nursery interests as well as aiding in the control of other pests affecting farm crops. During the past year forty-nine nurseries have been inspected with an output of about twenty-five million trees and plants. Inspection of orchards has been conducted and growers educated in the control of pests. Much demonstration work is done by this department. Seventy-five spraying and pruning demonstrations were held in different parts of the State and numerous visits made in response to requests for inspection. The inspection of imported nursery stock is also done by this department. This department has also promoted the work of the Horticultural Society and "Maryland Week" meetings and exhibition. In 1906 an appropriation of \$4,000 was made for investigations in horticulture.

#### MARYLAND EXPERIMENT STATION.

A summary of the investigations in progress at this institution can be found in my annual report of the Station to the Governor and Board of Trustees, a copy of which in the various agricultural industries of the State is ever apparent. We must learn the effect of various treatments of soils, adaptation of crops and means of increasing production by breeding and otherwise, through investigation and testing in actual practice before this work can be recommended for practical use in the State. I could cite any one of our departments of the Station and show the many problems that are presented for solution which would be of inestimable value to the growers of different crops.

The work of the Station in the Agronomy Department will serve as an illustration of the co-operative work in progress and investigations under way. The department is co-operating with ten high schools and over 300 farmers in growing corn, wheat, winter oats, soy beans, sweet corn and sudan grass and alfalfa.



Tested seed of each of these crops is sent to the persons or institutions wishing to co-operate, with the understanding that it is to be planted and taken care of according to our instruction, the object being to determine the adaptability of the various crops in the different parts of the State and to introduce valuable varieties and strains.

A series of co-operative demonstration plats of different forms of phosphorus and lime are being looked after at twenty places in the State. A complete two years' rotation, consisting of corn, wheat and grass, is being watched to see the effect of the different carriers of phosphorus and the relative merit of the unburned lime when compared with burned or hydrated lime. Corn and wheat have been harvested from the plots, but it will be necessary to collect data and make observations for the next two years to learn the effect on the grass crop.

Summarized, the Agronomy Department is doing the following work in the State:

Crop.	No. Co-operators in State.
Wheat .....	180
Winter oats .....	40
Soy beans .....	9
Alfalfa .....	60
Corn .....	15
Sweet corn .....	22
Sudan grass .....	2
Farms visited inspecting wheat and winter oats .....	100
Farms visited to inspect fertilizer work....	20
Farms visited to look after breeding work with corn and variety testing of soy beans .....	25
Farms visited at request of owners for ad- vice concerning farm management.....	17



Addresses given at various meetings by members of this department.....	30
Corn shows attended.....	12
County fairs attended.....	2

In addition this department of the Station has fifty acres of land devoted to experimental tests and investigations. More than one hundred varieties of wheat, oats, strains of corn, peas, etc., are being studied.

The same may be said of other departments of the Station in the lines of work pursued. The buildings and laboratories are greatly crowded and demands by the people engaged in the different agricultural pursuits necessitate an enlargement of our facilities to meet their requests and to do for the agricultural interests what is desired. Every industry, such as animal husbandry, swine, sheep and cattle raising and feeding, horticulture, agronomy, poultry, in the State could be given much additional help by more ample provision for this needed work at the Station.

#### STATE BOARD OF AGRICULTURE.

During the legislative session of 1908, the State Board of Agriculture was created and the Board of trustees of the College named as the Board of Agriculture, but no appropriations were made for its work.

#### HOG CHOLERA SERUM LABORATORY.

In 1912 a bill was passed authorizing the Board to establish a laboratory for the manufacture of Hog Cholera Serum at the Experiment Station and appropriating \$5,000 for two years for this purpose.

This legislation was in response to the great demand by the people for aid in preventing enormous losses to the swine industry through the disease known as Hog Cholera. This laboratory has been established and — centimeters of serum have been manufactured and distributed to — raisers of these animals in the State at actual cost.



Much has been done in the education of our people in preventing the disease attacking their hogs as possible, and a survey of this department has been the means of saving thousands of dollars to the raisers of this important animal product in the State. More funds are needed to cover the whole State in this important work.

#### SEED INSPECTION AND LABORATORY.

At the 1912 session a measure was passed authorizing the State Board of Agriculture to establish a laboratory for the analysis of farm seeds, and appropriating \$2,000 for the work. The inspection of seeds has been inaugurated during the past year and a half. — samples have been analyzed, and results of the work are now in press exhibiting the standards of seeds from various seed houses similar to the fertilizer inspection rules. This is most important to the farmers of the State, as it indicates the character of seed that they purchase, and when we consider the thousands of dollars that are spent annually for farm seeds, such a regulation is necessary. It can be easily appreciated that the limited funds provided narrows the scope of the work.

#### CONCLUSION.

I have thus tried to give your Commission some idea of the many and important lines of work done at both the College and Experiment Station in the interests of the farmers of Maryland. It is impossible to estimate the value of the work of these institutions during the past years in developing our agricultural resources. Suffice it to say that our agricultural interests have made much progress, but not in comparison with the opportunities and what more liberal appropriations on the part of the State to these institutions would return for the investment made.

Respectfully submitted,

H. J. PATTERSON,

President.

HJP/MW.



# EXHIBIT A, WITH PRESIDENT PATTERSON'S STATEMENT.

## COLLEGE BUILDINGS.

	Value.	Con- tents.	Character, Condition and Adaptability.
Mess Hall and Kitchen.....	\$3530	\$2000	Frame building 30' x 100' erected since destruction of dormitories, as emergency quarters for Domestic Department. One end used as Y. M. C. A. headquarters.
Assembly Hall.....	2280	575	Frame building 30' x 100' erected since destruction of dormitories, to be used temporarily as Assembly Hall, Chapel, etc.
Hospital Building.....	5600	1500	One-story brick building used since destruction of Administration Building, as headquarters of the administration offices.
Gymnasium and Library.....	12000	3000	Two-story brick building 40' x 60', upper used as library and reading room, containing 7000



	Value.	Contents.	Character, Condition and Adaptability.
Chemical Building.....	\$13120	\$4000	volumes. Much overcrowded. Gymnasium converted into military headquarters and armory since the fire.
Old Greenhouse.....	2935	200	Two-story brick building. Contains State Fertilizer and Feed Inspection Departments, in addition to class-rooms and laboratories for collegiate instruction. Both departments much overcrowded.
Class-room Greenhouse.....	575	200	40' x 100'. Practically worthless. 20' x 40'. Inadequate for the purpose.
New Greenhouse in course of construction.....	to cost about 5000		Five houses 20' x 50', and packing house complete. Plans contemplate ten greenhouses.



	Value.	Con- tents.	Character, Condition and Adaptability.
Laundry.....	\$2235	\$500	Old frame building, two stories, used for this purpose. Wholly unsuited for the work.
Boiler House.....	120	200	
Stewart's Quarters.....	600		Two-story frame building, over 30 years old.
Gas House.....	255	750	One-story brick building, satisfactory.
Water Tank.....	3325		Steel tank-tower, capacity 30000 gal. Satisfactory.
Pump House.....	75	200	Frame. Not in use. Well condemned.
Executive Mansion.....	6000	1000	Frame. Two-story. Old building in fair condition. Used since the fire as dormitory for about 36 students.



## EXPERIMENT STATION BUILDINGS.

	Value.	Con- tents.	Character, Condition and Adaptability.
Administration Building.....	\$8650	\$12900	Old brick building 40' x 30', built in 1863, three stories. Used as chemical, plant physiology, publicity, library and director's office. Greatly overcrowded and unsuitable for work.
Agronomy Building.....	2635	650	Small frame building 40' x 20', overcrowded, one story.
Bacteriological.....	8400	3000	Old stable converted into laboratories, frame building 40' x 40', two stories. Houses hog cholera serum laboratories, bacteriology, short course work.
Farm Machinery.....	930	600	New shed suitable for holding machinery.
Dairy Building.....	815	525	Frame building 40' x 20', built in 1895. Houses dairy. Unsuitable for work.



	Value.	Con- tents.	Character, Condition and Adaptability.
Hog House.....	\$705	\$150	Frame building 40' x 20', suitable for its use.
Horticulture Laboratory.....	7400	2780	Cement block building, 30' x 30', built in 1907, two stories. Houses Department of Horticulture. Overcrowded. Five greenhouses attached.
Cow Stable.....	3150		Built 1907. Good condition and suitable for work.
Dairy Barn.....	13000	2300	Built 1907, 100' x 40', two stories. Suitable for purpose.
Poultry Houses.....	1050	500	Small houses, built of frame, for temporary use.
Brick Poultry Laboratory....	2000	500	New building, 30' x 30', built since fire. Too small for department.
Pump House.....	875	2500	Brick, 30' x 10', suitable for work.



	Value.	Con- tents.	Character, Condition and Adaptability.
Frame Barn.....	\$205	\$200	Used for miscellaneous purposes. Small frame
“ .....	120	200	building.
Carriages, Wagons.....	6140		
Stock, Horses, Mules.....	2800		
Hay Barrack.....	1700		
Tools and Implements.....	250		
Silos (4) in number.....	1000		
Farm Products.....	1400		
Wagon Shed.....	675	650	Old frame structure. Fair condition.
College Stable.....	1200	700	Frame, rebuilt out material from an old building.



	Value.	Con- tents.	Character, Condition and Adaptability.
Carriages, Wagons, etc.....	\$600		
Farm House.....	2350	\$100	Two-story frame, used as boarding house for farm labor. Annex accommodates 12 students since the fire.
Farm Laborers' Dwellings (4)	3425		Four small dwellings, used as houses for farm labor.
Insectory.....	120		12' x 14'.
Storage Building.....	205	125	Rough board sheds.
Science Hall.....	27000	31000	Three-story brick building, 60' x 80'. Contains Departments of Agriculture, Horticulture, Veterinary Science, Entomology, Languages, Botany, History and Economics, and is headquarters for State Horticultural Department. Every department is overcrowded. At least



	Value.	Con- tents.	Character, Condition and Adaptability.
Engineering Building.....	\$63000	\$42620	three buildings needed to care for the depart- ments housed in this building.
Steam Boiler.....	12000		Three-story brick building with two-story wings. Modern building. Well equipped. Furnishes ample accommodations for immediate needs.
Institute Car.....	3000		
Barn at Upper Marlboro.....	900	500	



EXHIBIT B, WITH PRESIDENT PATTERSON'S STATEMENT.  
SUMMARIZED TABLE OF FACULTY, STAFF, DUTIES AND SALARY.

Department.	Name.	Title.	Duties.	Fund.	Salary.	Tot.Sal.
Executive	H. J. Patterson	President	Administration of the affairs of College and Station.	Col. U. S. Morrill	\$2000	
"	T. H. Spence	Director & Chemist	Director Chemistry Department at Hatch Station.	Hatch	3000	2500
"		Vice-Pres. Prof. Langs.	Administration affairs in charge of discipline and students records. Act. Exec. absence of Pres. Teaching 15 hrs. per wk. Throughout College year.	Morrill	2500	2500
"	H. Ford	Treasurer	Secretary Board and Treasurer of College & Station accounts.	Col Morrill State	1400 600	2000
"	W. Harrison	Asst. Treas.	Asst. Treasurer in keeping books for Institution.	Morrill	1200	1200
"	R. Brigham	Secretary to President	Assistant in correspondence and details in President office, also publicity, etc.	de-Morrill Hatch	400 600	1000



Department.	Name.	Title.	Duties.	Fund.	Salary.	Tot.Sal.
Agriculture.	W. T. L. Taliaferro.	Prof. Agr'l.	Teaches 35 hrs. per wk. Lectures, acts as judge of corn and does considerable extension wk. Lectures to short courses.	Morrill	1200	1200
"	R. H. Ruffner	Prof. Animal Husbandry	Teaches 25 hours per week. Lectures & Extension work. Lectures at short course.	Morrill	1800	1800
"	G. Kinzy	Asst. Agron.	Teaches 35 hrs. per wk. Assists in preparing class work and extension work during summer months.	Morrill	1620	1620
"	F. W. Besley	Lecturer on Forestry	Teaches 6 hours per wk. for 3 months per year, part of his duties as State Forester.	.....	No Sal.	No Sal.
Bot. & Path.	J. B. S. Norton	Prof. Bot. State Path. Plant Path.	Teaches 5 hrs. per wk. State Pathological work, devotes rest of time in-vestigational work at Exp. Station, Lecture wk. and extension work. Lectures to Short Course.	State Hort. Adams	300 1700	2000



Department.	Name.	Title.	Duties.	Fund.	Salary.	Tot.Sal.
	C. P. Smith	Asso. Prof. Bot. Seed Analysis	Teaches 19 hrs. per wk. rest of time analysis of seeds, enforcing.	Morrill State Board	900 900	1800
	K. E. Smith	Asst. Seed Work	Assists in analysis duties and keep- ing records of seed wk.	State Board	200	200
Chemical	H. B. McDonnell	Prof. Chem. State Chem.	Execu. offices of Dept. Teaches 10 hrs. per wk. Superintends inspection of Fertilizers, foods and lime, prosecutes cases.	Morrill	2500	2500
"	L. B. Broughton	Asso. Prof. Chem.	Teaches 35 hrs. per wk., assists in in- vestigation wk. at Station during summer.	Morrill Adams	1400 200	1600
"	J. D. Jarrell	1st Asst. State Work	Analysis of fertilizers and feeds con- tinuous work.	General	1200	1200
"	A. C. Adams	Asst. Chem. State Work	Assist in State Laboratory, analysis, etc.	General	1000	1000



Department.	Name.	Title.	Duties.	Fund.	Salary.	Tot.Sal.
Chemical	P. R. Gown	Asst. Chem.	Teaches 15 hrs. per wk. Assistant in Morrill Laboratory rest of time.		750	750
"	A. M. Gibson	Asst. Chem.	Spreads two-thirds of time in State General Laboratory Analysis.		450	450
Civil Eng.	T. H. Taliaferro	Prof. Civ. Eng.	Teaches 22 hrs. per wk. throughout the school year.	General.	1800	1800
"	W. Springer	Asst. Civ. Eng.	Teaches 30 hrs. per wk. throughout the school year.	General	900	900
Elec. Eng.	M. Creese	Prof. Elec. Eng. Phys.	Teaches 33 hrs. per wk. throughout the school year.	General	1800	1800
"	C. L. C. Kah	Asst. Elec. Eng. Phys.	Teaches 25 hrs. per week, assistant in Elec. Laboratory throughout year.	Morrill	900	900
Econ. and Sociology.	F. B. Bomberger	Prof. Econ. & Sociology Act. Libr.	Teaching 31 hrs. per wk. throughout the college year.—Extension wk. (Lecturing at Institutes, Granges, Farmers' Clubs, etc.) in summer.—Act. Libr. throughout year.	Morrill & Nelson	1800	1800
				Sal. of Libr.	200	2000



Department.	Name.	Title.	Duties.	Fund.	Salary.	Tot.Sal.
Eng. and Oratory.	C. S. Richardson	Prof. Eng. & Oratory	Teaching 33 hrs. per wk. throughout college year, Extension work (lecturing at Institutes, Granges, Farmers' Clubs) in summer.	Morrill	1800	1800
Ent. and Zoology.	T. B. Symons	Dean School Hort. State Ento. Hort. Demon. at Station	Executive Officer, State Hort. Dept. (Inspection of nurseries and orchards) Lectures to short course. Teaches 4 hours spring term. Extension work by demonstration, lectures, etc. Sec'y of Hort Society.	State Hort. Morrill Hort. Fund Station	600 600 1000	2200
"	E. N. Cory	Asso. Prof. Ent.	Teaches 33 hrs. per week, assists in inspection & demonstration work.	Morrill State Hort.	1200 300	1500
Horticulture	H. Beckenstrater	Prof. Pomol.	Teaches 18 hrs. per wk. throughout college year. Assists in demonstration and insp. wk. in State.	Morrill State Hort.	1200 600	1800
"	J. F. Monroe	Prof. Veg. Culture	Teaches 20 hrs. per wk. Assists in demonstration and inspec. work. in State.	Morrill State Hort.	900 900	1800



Department.	Name.	Title.	Duties.	Fund.	Salary.	Tot. Sal.
Horticulture	B. W. Anson	Asso. Prof. Flor.	Teaches 18 hrs. per week, assists in demonstration work and inspection in State.	Morrill State Hort.	900 600	1500
"	L. L. Burrell	Asst. in Small Fruits	Teaches 10 hours per wk. Assists in demonstration and inspection wk. in State.	Morrill State Hort.	300 900	1200
	W. C. Travers	Assistant	State inspection work entirely, located at nurseries and other points in State needing attention. 6 months service.	State Hort.	600	600
Language	M. H. Hargrove	Asst. Prof. Latin	Teaches 14 hrs. per wk. in charge of study hall.	Morrill	750	750
Mathematic	H. T. Harrison	Prof. Math. Sec. Faculty	Teaching 29 hrs. per week throughout the college year. Keeping records of faculty.	Morrill & Nelson	1800	1800
Mech. Eng.	H. Gwinner	Prof. Mech. Eng. Draw Supt. Shops	Teaching 36 hrs. per week throughout the school year.	Morrill	1800	1800



Department.	Name.	Title.	Duties.	Fund.	Salary.	Tot. Sal.
Mech. Eng.	H. L. Crisp	Asso. Prof. Mech. Eng.	Teaching 33 hrs. per wk. throughout school year.	Morrill	900	900
"	W. R. Warthan	Instructor Mech. Eng.	Teaches 32 hrs. per week throughout college year.	Morrill	900	900
Milt. Science	J. A. Dapray	Prof. Milt. Science	Teaches 6 hrs. per week. Has charge of all military work with students throughout college year.	Morrill War Dept.	480 .....	480 .....
Phys. Cult.	H. C. Byrd	Instr. Eng. Instr. Phys. Culture	Teaching 10 hrs. per week throughout college year. Coach of all athletic teams. Instr. in Gym.	Morrill & Nelson	1200	1200
Veter. Sci.	S. S. Buckley	Prof. Vet. Science Animal Path.	At college teaches 25 hrs. per wk. during one term. Station 9 months in investigation. Assists in hog cholera serum distribution, lectures, short course and extension work.	Morrill Adams State Board	500 1000 300	1800
Library	R. W. Silvester	Pres. Emer. Librarian	To superintend Libr. of college.	General	2500	2500



Department.	Name.	Title.	Duties.	Fund.	Salary.	Tot. Sal.
Farmers' Institutes	R. S. Hill	Dir. Farm. Insts.	Conducts Farmers' Insts. in every State county of the State.		2200	2200

DEPARTMENTS EXPERIMENT STATION.  
SUMMARIZED TABLE OF STAFF, DUTIES AND SALARY.

Department.	Name.	Title.	Duties.	Fund.	Salary.	Tot. Sal.
Chemical	H. J. White	Asst. Chem.	Assists in Chem. investigations.	Hatch	720	720
"	R. W. Lawson	"	"	Adams	900	900
Animal Path.	Included under College list.					
Bot. Plant Path.	See College list.					



Department.	Name.	Title.	Duties.	Fund.	Salary.	Tot. Sal.
Hort. Demonstration	See College list.					
Agron.	N. Schmitz	Agron.	Conducts investigations with cereal crops, lectures at farmers' meetings, demonstrations in State. Sec'y Md. Crop Improv. Assoc.	Hatch	1700	1700
	W. E. Hanger	Asst. Agron.	Assists in conducting investigations with cereal crops, extension and demonstration work.	Hatch	1500	1500
Farm Management	E. H. Brinkley	Farm Supt.	Manages work and general work on station farm.	Hatch State	800 600	1400
Veg. & Flor.	T. H. White	In charge Veg. & Flor.	Conducts investigations in Veg. Cul. Hatch and Flor., lectures at meetings, etc.	Hatch Adams	800 720	1520
Plant Physiology.	Chas. O. Appleman	Plant Physiologist	Conducts investigations in plant physiology throughout year, lectures at short courses.	Adams	2000	2000



Department.	Name.	Title.	Duties.	Fund.	Salary.	Tot. Sal.
Biology	B. M. Bolton	Biologist	Directs manufacture of Hog Cholera Serum and conducts investigations.	State Board Agriculture	1800	
"	C. L. Opperman	Swine Husb.	Conducts investigation in swine husbandry. Lectures Farmers' Insts., extension work.	State Board Agriculture	900	
Ento.	A. B. Gahan		Employed by Dept. of Ag'l, co-operating with station in entomology investigations.	Hatch	600	1500
Poultry	R. H. Waite	Poultryman	Conducts investigations in poultry husbandry. Lectures short courses, extension work.	Hatch	1620	1620
Dairy Ext.	G. E. Walcott	In charge Dairy Ext.	Employed by U. S. Dept. of Agr'l, co-operating with station in dairy extension work.	.....	No Sal.	No Sal.
Stone Fruits	F. S. Holmes	In charge Stone Fruits	Conducts investigations in orchard fruits.	Adams Hatch	1200 400	1600
Seed Analysis	See College list					
Pomol. and Small Fruits	W. R. Ballard	In charge Pomol. Small Fruits	Conducts investigations in Pomology and small fruits, lectures & extension work.	Hatch	1200	1200



The teachers' hours given represent regular classes met; time should be allowed for preparation, of class work, committee work and miscellaneous duties in connection with college work. The short course work is also conducted mostly by members of the faculty and Station staff.

The office hours for the members of the faculty and staff are from 8 A. M. to 5 P. M. daily. The above list does not include miscellaneous inspectors paid per diem for inspection work, janitors and common labor work required at the College and Station.

The Station staff and many college professors are called on for extension work which involves extra time and much night work.

---

REPORT OF THE DIRECTOR OF THE MARYLAND EXPERIMENT  
STATION TO ANNUAL MEETING OF TRUSTEES,  
JUNE 13, 1913.

To the Board of Trustees.

Gentlemen:

I have the honor to submit the following report as to the work of this institution for the past fiscal year, together with recommendations for the coming year.

GENERAL STATEMENT.

The investigations outlined in the last report have been pursued with very few changes or interruptions. The general plant and equipment has been increased and improved so that on the whole it is in better and more satisfactory shape than at any previous time. The men employed at the Station have been pursuing their investigations with energy and enthusiasm and have turned out some good work.



## FINANCIAL CONDITIONS. APPROPRIATIONS.

The Station is in a satisfactory financial condition. All work has been done with the Station's income.

I recommend that the several appropriations which come to the Experiment Station be expended for the coming year in accordance with the following schedule, and that the details of the expenditures be, as in the past, placed in the hands of the Director and the Agricultural and Station Committee of the Board. I also recommend that the Treasurer of the Station be authorized to draw drafts for one-fourth of the amount of the State appropriations to the Station at the end of each quarter of the calendar year.



## APPROPRIATIONS FOR SALARIES AND WORK OF THE EXPERIMENT STATION FOR 1913-1914.

Salaries as follows:	Hatch Fund	Adams Fund	State Fund	Hort. Fund	Farm Sales	Demonstration Fund	Total
Director and Chemist, H. J. Patterson	\$ 2,500	\$ 250	\$ 250				\$ 3,000
Agronomist, N. Schmitz	1,700						1,700
Plant Pathologist, J. B. S. Norton		1,700					1,700
Plant Physiologist, C. O. Appleman		2,000					2,000
Bacteriologist		1,800					1,800
Horticulture	400			\$ 1,000			1,400
Horticulture—Stone and Nut Fruits	600	1,000					1,600
Horticulture—Vegetable and Floriculture, T. H. White	1,000	250	250				1,500
Horticulture—Pome, Vine and Bush Fruits, W. R. Ballard	1,000			200			1,200
Entomologist		1,500					1,500
Asst. Agronomist, W. E. Hanger	700		800				1,500
Farm Supt., E. H. Brinkley	900		300		\$ 300		1,500



## APPROPRIATIONS FOR SALARIES AND WORK OF THE EXPERIMENT STATION FOR 1913-1914.

Salaries as follows:							
	Hatch Fund	Adams Fund	State Fund	Hort. Fund	Farm Sales	Demonstration Fund	Total
Poultryman, R. H. Waite.....	\$ 1,500	.....	.....	.....	.....	.....	\$ 1,500
Animal Pathologist, S. S. Buckley .....	.....	\$ 1,300	.....	.....	.....	.....	1,300
Soil Investigations .....	.....	500	.....	.....	.....	.....	500
Chemist on Feeding Investigations, H. J. White.....	720	.....	\$ 200	.....	.....	.....	920
Dairy Chemistry and Bacteriology .....	600	600	.....	.....	.....	.....	1,200
Laboratory attendant, Dairy work .....	.....	600	.....	.....	.....	.....	600
Sheep Investigations and Directors' Secretary .....	.....	.....	700	.....	.....	.....	700
Swine Investigations .....	600	.....	.....	.....	.....	.....	600
Clerical and Stenographic work .....	600	600	.....	\$ 400	.....	.....	1,600
Treasurer .....	.....	.....	600	.....	.....	.....	600
Labor .....	1,800	900	400	1,000	\$ 4,200	.....	7,680
Dairy Demonstrations .....	.....	.....	500	.....	.....	\$ 1,000	1,500
Horticultural Demonstrations .....	.....	.....	.....	.....	.....	1,000	1,000
Crop and Fertilizer Demonstrations .....	.....	.....	500	.....	.....	1,000	1,500



Publications .....	\$ 200	.....	\$ 2,000	200	.....	\$ 2,400
Postage and Stationery .....	.....	100	200	200	.....	500
Heat, Light and Water .....	200	300	200	200	.....	900
Chemical Supplies .....	200	200	100	.....	.....	500
Seeds, Plants & Sundry Supplies.	.....	.....	400	400	.....	800
Fertilizers .....	.....	100	200	.....	.....	300
Feeding Stuffs .....	200	400	400	.....	\$ 500	1,500
Furniture and fixtures .....	.....	.....	200	.....	.....	200
Library .....	.....	200	200	.....	.....	400
Scientific apparatus .....	.....	200	200	.....	.....	400
Insurance .....	.....	.....	200	.....	.....	200
Buildings and repairs .....	.....	200	500	.....	500	1,200
Exhibits .....	.....	.....	200	.....	.....	200
Traveling expenses .....	.....	100	200	100	.....	400
Trustees' expenses .....	.....	.....	200	.....	.....	200
Tobacco experiments .....	.....	.....	500	.....	500	1,000
Drainage and Irrigation .....	.....	.....	200	.....	.....	200
Contingent expenses .....	200	200	300	300	Bal-	1,000
					ance	
Total appropriation.....	\$15,000	\$15,000	\$10,000	\$ 4,000	\$ 6,000	\$ 3,000 \$53,000



## PUBLICATIONS.

The following list shows the subjects, authors and number of pages of each bulletin issued during the past year. These publications give more or less of a history of the Station's activities and the main results which have been obtained during each fiscal year.

Date.	No.	Subject.	Author.	No. pages.
July, 1912.		25th Annual Report.	H. J. Patterson.	
July, 1912.	168	By Products Feeds.	H. J. Patterson and H. J. White.	1-29
Aug., 1912.	169	Cow-testing Associations.	G. H. Hibberd and G. E. Wolcott.	29-73
Oct., 1912.	170	The Maryland Seed Law.	C. P. Smith.	73-81
Dec., 1912.	171	Poultry Notes.	R. H. Waite.	81-105
Jan., 1913.	172	Irish Potato Investigations, 1909-1913.	T. H. White.	105-121
Jan., 1913.	173	Tomato Variations induced by culture.	T. H. White.	121-135
Feb., 1913.	174	Hog Cholera.	B. M. Bolton.	135-171
Mar., 1913.	175	Miscellaneous Insect Pests.	T. B. Symons and E. N. Cory.	171-181
Apr., 1913.	176	The Peach-Tree Borer.	E. N. Cory.	181-
June, 1913	177	Chemical Studies of After Ripening in the Potato.	C. O. Appleman	(in press)



## BUILDINGS AND REPAIRS.

There has been a number of changes made in the Station building during the past year.

1st. All buildings have been given two coats of paint on the outside.

2nd. The old horse barn has been remodeled and converted into a biological laboratory for the manufacture of hog cholera serum and all other biological work.

3rd. The annex to the barn has been remodeled and provides laboratory, office, waiting room and bulletin storage.

4th. The old wagon shed has been remodeled and converted into a demonstration and lecture room. This has already proven to be one of the most useful rooms on the place and it afforded very good facilities for the College short-course work the past winter.

5th. The tool shed has been remodeled for several phases of the hog work.

6th. The two-story cow barn has been remodeled for use as a horse barn.

7th. A new calf shed 15x30 open to the south and east has been constructed of cement sides and floor and slate roof.

8th. A new cement silo 12x34 has been constructed at a cost of \$200. The silage from the silo was very good.

9th. A new tool shed 24x190 was constructed. It has a cement wall 9 feet high at back and ends open to the east. It is divided into 16-foot spaces, which gives room for two wagons to each section. This gives each wagon a special stall. The tool shed has a second floor used for the storage of small tools and supplies.

10th. Several small hog cots have been constructed for the hog cholera work and some of the poultry houses have been remodeled.



11th. The poultry building which contained the offices, laboratories and incubator rooms in the basement were destroyed by fire. This has caused considerable loss of records and interruption to work. The insurance on this building and contents amounted to \$1900. This has been deposited as a building fund to replace this equipment. The poultryman is now preparing plans for another building. I recommend that it be constructed at once and built of brick and made so that incubator room will be entirely fire proof.

12th. The revaluation of the building and re-insuring them on this new basis, for a period of five years, has caused a large insurance bill (about \$2,000) for one year, which has made a big drain on the funds for this purpose at one time.

#### INVESTIGATIONS.

The investigations in progress are mostly continuation of those enumerated in the last report. Funds will not permit of much expansion or the taking up of new lines.

Mention will only be made of new lines of work and matter to which your attention is specially invited.

#### FERTILITY INVESTIGATIONS.

There is a demand for much more definite knowledge than is possessed at present on the relative value of green manure crops and how to use them. We made a slight beginning on this subject at the Marlboro fair grounds, but this was interrupted by some changes made in the grounds.

We had hoped that the MacNamee farm, which was leased last year, would give enough land for this work, but after using all that was desired for the Horticultural work there was not sufficient to permit making a thorough study of this important question.

We can get enough land which is very well adapted to the work at a reasonable rental from George H. Calvert, Jr., and I recommend that it be secured.



## SYNOPSIS OF HORTICULTURAL WORK IN PROGRESS.

The following is a brief statement of the work being done along Horticultural lines:

*Apples.* Breeding work; new seedlings; disease resistance; late blooming; behavior of fruit buds; woolly aphis control; dipping nursery trees; control of apple rust.

*Peaches.* Orchard heating; bud work, factors influencing hardiness.

*Strawberries.* Cultural and variety tests; study of preserving fruit.

*Grapes.* Breeding work; crossing vinifer and commercial types; cultural methods; spraying.

*Raspberries.* Variety work.

*Tomatoes.* Disease resistance; spraying tests; fertilizer tests; seed selection.

*Potatoes.* Spraying tests; variety and uniformity; resistance to diseases; fertilizer tests.

*Asparagus.* Varieties and fertilizers.

*Cabbage.* Varieties and selection of seed for hardiness and disease resistance; study of the cause of seedling in spring.

*Sweet Corn.* Varieties of sugar corn; corn ear worm.

*Peas.* Varieties of early peas.

*Canteloupes.* Seed selection; rust resistance; shipping; desert qualities; spraying.

*Lettuce.* Study of strains, varieties and age of seed.

*Carnations.* Stem rot; fertilizer tests.

*Geraniums.* Breeding work for producing hardy and adaptable kinds.

*Roses.* Value of one, two and three year old plants; effect on crop in different location of house.

*Mignonette.* Improving for greenhouse work.

*Sweet Peas.* Seed selection.



*Miscellaneous.* Effect of chemicals on plants; susceptibility or resistance to disease in connection with varieties and diseases; preserving of fruits.

#### SYNOPSIS OF EXTENSION WORK.

*Apple.* Spraying and pruning demonstrations; cultural methods; fruit-packing demonstrations.

*Peaches.* Spraying and pruning demonstrations; cultural methods; fruit packing.

*Strawberris.* Cultural methods.

*Grapes.* Cultural methods and spraying.

*Tomatoes.* Spraying demonstrations; fertilizer and seed selection demonstrations.

*Potatoes.* Spraying demonstrations.

*Canteloupes.* Spraying demonstrations; seed selection.

#### FLORICULTURAL AND LANDSCAPE GARDENING.

Beautifying rural school houses and farm homes.

*Miscellaneous.* Attending farmers' meetings; judging at agricultural fairs; assistance in the Horticultural Society exhibit; institute work; short course work; press work; local correspondence; local inspection and advice.

#### POULTRY INVESTIGATIONS.

The poultry department made exhibits at several of the local poultry shows and at the Baltimore show. Illustrated lectures were given at the same places in addition to the exhibit. This feature was well received and met with a much greater demand than we were able to comply with. This department has also continued to co-operate with the College in holding the one-week short course. There is a great demand for an opportunity to have practical work in poultry raising and I believe that this department of the Station should be enlarged and organized so as to give this service.



## DAIRY INVESTIGATIONS.

The results of the use of the open vs. the closed dairy barn for a period of three winters has been compiled and is now ready for press. The results show that the open barn is superior to the closed from almost every standpoint.

The dairy extension work is progressing nicely and gaining in interest. More stress is being laid on silo construction, remodeling of barns and getting people interested in pure bred bulls of the breeds adapted to local conditions. More demonstration and extension work is being done through the high schools.

## DEMONSTRATION WORK.

I have just completed arrangement for extending the demonstration conducted in Maryland by the U. S. Department of Agriculture and getting a closer co-operation with this institution. The terms are briefly as follows:

1st. That all lines taken up and men engaged will be submitted to us for approval.

2nd. That the leader for Maryland will have his headquarters here, so that the people of the State will know that we are co-operating in the work.

3rd. That nearly three times as much money will be allotted to Maryland. This will probably allow taking up work in some of the southern Eastern Shore counties and in the extreme western counties.

4th. The U. S. Dept. work in Maryland is to remain in charge of Mr. Knapp's office and not to be transferred to Mr. Spillman's office as contemplated a few months ago.

5th. That we will not be required to put up any money to get this work done in Maryland.



## "FARMERS' DAY."

As per the plan outlined one year ago, we set May 30th as farmers' day at the Station and College. Nearly 300 people visited and inspected the work on that day and all seemed much interested in what they saw and heard.

I recommend a continuation of this plant of holding a farmers' day at least once a year.

## SEED INSPECTION.

I would recommend that the seed inspection be continued in accordance with the plan pursued the past year and that the money be appropriated approximately as follows:

One-half time of Associate Botanist.....	\$1,000
Extra help at testing season.....	300
Publication of results.....	200
Apparatus and supplies.....	250
Traveling expenses .....	200
Contingent expenses .....	150
Total.....	\$2,000

A special laboratory has been fitted up for this work in the remodeled Biological building at the Station.

## BIOLOGICAL LABORATORY.

The work in fitting up the laboratories for the hog cholera work was delayed on account of turning the building over to the College for the short courses in Agriculture, which was necessary, as the College fire left no place for the work. The fitting up was further delayed by the loss of some of the apparatus in the poultry laboratory fire.

The work is now taking final shape and we will be producing serum very soon.



We have, however, had a good supply of serum since last July, so that all who desired it could get it from us. We have procured our supply from the Kansas Station, and when this serum was used in time it has proven effective.

We are now about perfecting our plans so as to make the serum more accessible to the different parts of the State and also trying to work out a plan which will aid the public in checking the spread of this disease.

I recommend that the funds for next year be appropriated approximately as follows:

Salary of Biologist and Pathologist (2/3 time)	\$1,200
Salary of Swine Husbandman (1/2 time).....	750
Salary of laboratory assistant.....	750
Labor and feed.....	1,000
Apparatus, etc. ....	300
Travel and control expenses.....	1,000
Total.....	<hr/> \$5,000

Respectfully submitted,

H. J. PATTERSON,

Director.

#### TEXT OF NEW CHARTER AS PROPOSED BY THE COMMISSION.

A bill, entitled "An Act to incorporate the Trustees of the Maryland Agricultural College, to vest in said corporation certain property now owned or about to be acquired or owned by the State of Maryland and to prescribe certain duties and responsibilities in connection therewith."

Section 1. Be it enacted by the General Assembly of Maryland, That Phillips Lee Goldsborough, Governor of Maryland; Murray Vandiver, Emerson C. Harrington, Jesse D. Price, James McC. Trippe, Robert Crain, Robert W. Wells, John Hubert, Harry Holtzapple, Harry P. Skipper, Charles A. Councilman, F. C. Goldsborough, J. Harold Walsh, Charles F. Brooke,



Frank R. Kent, Herbert R. Getty, and their successors as hereinafter provided for, be and they are hereby constituted a corporation under the name and style of the Trustees of the Maryland Agricultural College, with power to adopt and use a corporate seal, and by their name to be capable in law of suing and being sued, taking and holding real and personal property, contracting and being contracted with, and doing and causing to be done all things necessary for the purpose of any formation as hereinafter set out.

Section 2. And be it further enacted that all the property of the State of Maryland, real, personal and mixed of any kind or character, now used or operated by or in the possession of the Maryland Agricultural College, be and the same is hereby vested in the corporation named in Section 1 of this Act; and all property, real, personal and mixed of any kind or character, now used or in the possession of the said Maryland Agricultural College, which may be hereafter purchased or acquired by the State of Maryland at any sale held in pursuance of mortgage foreclosure proceedings instituted, or about to be instituted, by the Treasurer of Maryland in Prince George's county, Maryland, be, and the same is hereby vested in the said corporation named in Section No. 1 of this Act, as soon as the title to said property has become vested in the State of Maryland, or the said property has been acquired by the State of Maryland.

Section 3. And be it further enacted, That the Trustees of the Maryland Agricultural College shall hold said property and all other property hereinafter acquired by them, and shall use the same for the purpose of conducting an agricultural college and a model farm in connection therewith for the purpose of teaching agriculture, the arts allied thereto, and kindred subjects to the students attending said College and of disseminating agricultural knowledge to the people of Maryland, and they are hereby granted all corporate powers necessary for the carrying out of these purposes, and all powers, duties and obligations now enjoyed by or



laid upon the Maryland Agricultural College, a corporation, are hereby conferred upon the said Trustees of the Maryland Agricultural College in so far as it lies within the power of the State of Maryland to so confer the same.

Section 4. And be it further enacted, That all endowments of the Maryland Agricultural College are hereby granted to the Trustees of the Maryland Agricultural College, and all powers, duties, and obligations devolving upon the said Maryland Agricultural College in connection with or by reason of the various and several Acts of Congress of the United States of America in relation to agricultural colleges and agricultural experiment stations are hereby granted and conveyed to the Board of Trustees of the Maryland Agricultural College to be enjoyed and carried out by them in the same manner as they have heretofore been enjoyed and carried out by the Maryland Agricultural College, and the Trustees of the Maryland Agricultural College are hereby named and appointed by the State of Maryland to receive all monies, appropriations and grants now or hereafter coming to the State of Maryland from the United States Government under any Acts of Congress now in force or hereafter to be passed for the purposes above named.

Section 5. And be it further enacted, That the persons named in Section No. 1 of this Act shall hold their offices until May 1st, 1916, and until their successors are duly appointed and qualified; except the last five named thereof, who shall hold their said offices for life, and on or after the first day of May, 1916, the Trustees of the Maryland Agricultural College shall consist of the Governor of Maryland, ex officio; the Treasurer of Maryland, ex officio; the President of the Senate, ex officio; the Speaker of the House of Delegates, ex officio; the United States Secretary of Agriculture, ex officio; F. C. Goldsborough, J. Harold Walsh, Charles F. Brooke, Frank R. Kent as long as they or any of them shall survive, and six persons interested in agriculture to be appointed and to be named by the Governor with



the consent of the Senate, and it shall be the duty of the Governor, at the session of the General Assembly of Maryland, held in the year 1916, to name six persons to act as such Trustees, three of whom shall hold office for two years and three of whom shall hold office for four years, and at each succeeding session of the General Assembly the Governor shall send to the Senate for confirmation the names of three persons to fill the vacancies occurring in two years in each Board as above set out. In the case of a vacancy occurring amongst said six members appointed by the Governor between the sessions of the Legislature, he shall have power to fill the same.

Section 6. And be it further enacted, That the Trustees of the Maryland Agricultural College as herein constituted shall meet at once upon the passage of this Act, organize, elect a Chairman, who shall be a member of the Board, and employ a Secretary. The Trustees of the Maryland Agricultural College shall organize in the same manner as soon as practicable at some fixed time to be determined by them in the month of May, 1916, and every two years thereafter. Eight members thereof shall constitute a quorum. The said Trustees shall have full power and authority to appoint professors and teachers in the college aforesaid, prescribe their duties and salaries, and fix and determine the duties, salaries, wages, costs, and charges of all other officers, employees and servants, tuition and board of student; courses of study in accordance with the provisions of this Act, vacations, examinations, exhibitions and control and management of all persons and things in and belonging to said Agricultural College Farm and Experiment Station connected therewith, subject to the provision of existing laws in relation thereto. They shall have the care, control, and management of all the real and personal property, and the money of the said college, farm and experiment station and shall appoint times for their meetings and shall keep a correct and easily understood record of the minutes of every meeting and all acts done by them in pursuance of their duties. They shall make a writ-



ten report bi-annually to the General Assembly of Maryland of the condition of the college property and the educational and other work done there for the State.

Section 7. And be it further enacted, That this Act shall take effect from the day of its passage.







